

Risk Management Plan Audit Program

Site Visit Checklist

This Risk Management Plan (RMP) Audit Program Checklist has been developed to ensure compliance with the Accidental Release Prevention requirements under Section 112(r) of the Clean Air Act (CAA), as amended in 1990. This checklist will be used during audit site visits to all areas that currently operate or plan to add a facility that manufactures, processes, stores, or handles a regulated substance over the threshold quantity. This is used during a site visit of an RMP area during an internal audit (every 3-years) or when the facility is initially added to the RMP or the current RMP is modified and also every five years from the initial addition or modification to the RMP to attain the details of the operations and assess the applicability and compliance with RMP regulations.

SECTION I: General Information

- 1. Process:**
- 2. Area:**
- 3. Current Regulated Substance:**
- 4. RMP Project Lead:**

NOTE: If more than one process is applicable to RMP regulations, please include a separate checklist for each process.

SECTION II: Compliance Objectives

The questions in this section refer to changes or modifications made to the process or operations in your area that is currently part of the RMP. Please use yes or no answers to the questions and only expand on the answers where asked to or necessary. If the question does not pertain to your operations, please answer Not Applicable or N/A and explain why this is true.

1. Regulated Substances

- a) Has the quantity of the regulated substance currently stored changed or are there plans to change the quantity in the future (see list of regulated substances, starting on page 8)?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit a list of the amount of the increase or decrease and of what substance(s).

- b) Has there been any regulated substances added to your process or are the plans to add any regulated substances in the future (see list of regulated substances, starting on page 8)?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit a list what substance(s), the quantity of each, and the hazards pertaining to the substance(s).

2. Process

- a) Has the location of the process been moved, contracted, or expanded that would impact the release mitigation area?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit a map showing the new location or a description of the contraction, or expansion of the process.

- b) Has the process been modified or has a new process been added that would impact the release mitigation area (i.e., new storage of the substances, new operations utilizing the substances)?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit a description of the modified or new process.

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3. Accidents

- a) Have there been any accidental releases in the past year that resulted in off-site death, injury, or response or restoration activities for an exposure to the public and/or environmental receptors?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit the accident report?

- b) Are the records for the past 5 years maintained?

Please check one: **Yes:** ☐ **No:** ☐

- c) Have there been any operational or process changes that resulted from an investigation of the release?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit a description of the operational or process change.

4. Prevention Program

- a) Is the Occupational Safety and Health Administration (OSHA) Process Safety Management (PSM) Standard (29 CFR 1910.119) applicable to this site?

Please check one: **Yes:** ☐ **No:** ☐

If yes, is the PSM document provided on-site?

If yes, is the PSM document maintained on a regular basis?

If yes, how do you demonstrate compliance with the PSM Standards?

If yes, also answer the "A. *Process Safety Information*" section.

- b) If the PSM Standard is not applicable, does the process area have another type of process safety information?

Please check one: **Yes:** ☐ **No:** ☐

If yes, answer the "A. *Process Safety Information*" section.

If no, please skip the "A. *Process Safety Information*" section.

- c) Was there an initial process hazard analysis (PHA) for your process area?

Please check one: **Yes:** ☐ **No:** ☐

If yes, answer the "B. *Process Hazard Analysis*" section.

If no, please skip the "B. *Process Hazard Analysis*" section.

- d) Has there been a change or an update to the PHA?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit the date of completion of the most recent PHA or update and the technique used.

- e) Have operation procedures been developed and implemented?

Please check one: **Yes:** ☐ **No:** ☐

If yes, answer the "C. *Operating Procedures*" section.

If no, please skip the "C. *Operating Procedures*" section.

- f) Has there been a change or an update to the operation procedures?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit the date of the latest change to the operation procedures.

- g) Has a training program been developed and implemented?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit the type of training provided (i.e., classroom, classroom plus on the job, or on the job).

If yes, please submit the type of competency testing used.

If yes, also answer the "D. *Training*" section.

If no, please skip the "D. *Training*" section.

- h) Has there been a change or an update to the training program?

Please check one: **Yes:** ☐ **No:** ☐

If yes, please submit the date of the most recent review or revision of the training program.

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- i) Have maintenance procedures been developed and implemented?
Please check one: **Yes:** ☐ **No:** ☐
If yes, answer the “*E. Mechanical Integrity*” section.
If no, please skip the “*E. Mechanical Integrity*” section.
- j) Has there been a change or an update to the maintenance procedures?
Please check one: **Yes:** ☐ **No:** ☐
If yes, please submit the date of the most recent review or revision of the maintenance procedures.
- k) Have management of change procedures been established and implemented?
Please check one: **Yes:** ☐ **No:** ☐
If yes, answer the “*F. Management of Change*” section.
If no, please skip the “*F. Management of Change*” section.
- l) Has there been a change or an update to the management of change procedures?
Please check one: **Yes:** ☐ **No:** ☐
If yes, please submit the date of the most recent review or revision of the management of change procedures.
- m) Has there been a pre-startup safety review for new stationary sources when the modification was significant enough to require a change in the process safety information?
Please check one: **Yes:** ☐ **No:** ☐
If yes, please submit the date of the most recent pre-startup review.
If yes, also answer the “*G. Pre-startup Review*” section.
If no, please skip the “*G. Pre-startup Review*” section.
- n) Has there been an RMP compliance audit?
Please check one: **Yes:** ☐ **No:** ☐
If yes, please submit a description of any changes resulting from the investigation and the expected dates of completion of any changes.
- o) Has there been any incident investigations?
Please check one: **Yes:** ☐ **No:** ☐
If yes, please submit the date of the most recent investigation and the expected date of completion of any changes resulting from the investigation.
If yes, also answer the “*H. Incident Investigation*” section.
If no, please skip the “*H. Incident Investigation*” section.
- p) Is there an employee participation plan?
Please check one: **Yes:** ☐ **No:** ☐
If yes, please submit the most recent review or revision to the plan.
If yes, also answer the “*I. Employee Participation*” section.
If no, please skip the “*I. Employee Participation*” section.
Are there hot work permit procedures?
If yes, please submit the most recent review or revision to the procedures.
If yes, also answer the “*J. Hot Work Permits*” section.
If no, please skip the “*J. Hot Work Permits*” section.
- q) Are there contractor safety procedures?
Please check one: **Yes:** ☐ **No:** ☐
If yes, please submit the most recent review or revision to the procedures.
- r) Are there contractor safety performance evaluations performed?
Please check one: **Yes:** ☐ **No:** ☐
If yes, please submit the date of the most recent evaluation.
- s) Has the contractor been informed of the known potential fire, explosion, or toxic release hazards and the applicable provisions of the emergency response program related to the contractor’s work and the process?
Please check one: **Yes:** ☐ **No:** ☐

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- t) Is there a monitoring and detection system in use in your process area?
Please check one: **Yes:** ☐ **No:** ☐
 If yes, please submit a description of the monitoring and detection system.
- u) Is there a mitigation system in use in your process area?
Please check one: **Yes:** ☐ **No:** ☐
 If yes, please submit a description of the mitigation system.
- A. *Process Safety Information*
- i) Is there toxicity information included in the PSM or process safety information?
Please check one: **Yes:** ☐ **No:** ☐
- i) Is there permissible exposure limits included in the PSM or process safety information?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Is there physical data included in the PSM or process safety information?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Is there reactivity data included in the PSM or process safety information?
Please check one: **Yes:** ☐ **No:** ☐
- iii) Is there corrosivity data included in the PSM or process safety information?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Is there thermal and chemical stability data included in the PSM or process safety information?
Please check one: **Yes:** ☐ **No:** ☐
- v) Are the hazardous effects of inadvertent mixing of material that could foreseeably occur included in the PSM or process safety information?
Please check one: **Yes:** ☐ **No:** ☐
- vi) Does the PSM or process safety information contain a block flow diagram of simplified flow diagram?
Please check one: **Yes:** ☐ **No:** ☐
- ix) Does the PSM or process safety information contain the process chemistry?
Please check one: **Yes:** ☐ **No:** ☐
- x) Does the PSM or process safety information contain the maximum intended inventory?
Please check one: **Yes:** ☐ **No:** ☐
- xi) Does the PSM or process safety information contain the safe upper and lower limits for temperatures, pressures, flows and/or compositions?
Please check one: **Yes:** ☐ **No:** ☐
- xii) Does the PSM or process safety information contain an evaluation of the consequences of deviations?
Please check one: **Yes:** ☐ **No:** ☐
- xiii) Does the PSM or process safety information contain the materials of construction?
Please check one: **Yes:** ☐ **No:** ☐
- xiv) Does the PSM or process safety information contain the piping and instrument diagram?
Please check one: **Yes:** ☐ **No:** ☐
- xv) Does the PSM or process safety information contain the electrical classification?
Please check one: **Yes:** ☐ **No:** ☐
- xvi) Does the PSM or process safety information contain the relief system design and design basis?
Please check one: **Yes:** ☐ **No:** ☐

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- xvii) Does the PSM or process safety information contain the ventilation system design?
Please check one: **Yes:** ☐ **No:** ☐
- xviii) Does the PSM or process safety information contain design codes and standards employed?
Please check one: **Yes:** ☐ **No:** ☐
- xix) Does the PSM or process safety information contain material and energy balances for processes built after June 21, 1999?
Please check one: **Yes:** ☐ **No:** ☐
- xx) Does the PSM or process safety information contain the safety systems?
Please check one: **Yes:** ☐ **No:** ☐

B. *Process Hazard Analysis*

- i) Does the PHA identify, evaluate and control the hazards involved in the process?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Has the priority order for conducting PHAs been determined and documented, and was it based on appropriate rationales?
Please check one: **Yes:** ☐ **No:** ☐
- iii) Was the "What-if" technology used for the PHA?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Was the checklist technology used for the PHA?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Was the "What-if" and checklist technology used for the PHA?
Please check one: **Yes:** ☐ **No:** ☐
- v) Was the Hazard and Operability Study (HAZOP) technology used for the PHA?
Please check one: **Yes:** ☐ **No:** ☐
- vi) Was the Failure Mode and Effects Analysis (FMEA) technology used for the PHA?
Please check one: **Yes:** ☐ **No:** ☐
- viii) Was the Fault Tree Analysis technology used for the PHA?
Please check one: **Yes:** ☐ **No:** ☐
- ix) Was another appropriate equivalent methodology used for the PHA?
Please check one: **Yes:** ☐ **No:** ☐
- If yes, please submit a description of the methodology used.
- x) Does the PHA address the hazards of the process?
Please check one: **Yes:** ☐ **No:** ☐
- xi) Does the PHA identify any incident, which had a likely potential for catastrophic consequences?
Please check one: **Yes:** ☐ **No:** ☐
- xii) Does the PHA address engineering and administrative controls applicable to hazards and interrelationships?
Please check one: **Yes:** ☐ **No:** ☐
- xiii) Does the PHA address consequences of failure of engineering and administrative controls?
Please check one: **Yes:** ☐ **No:** ☐
- xiv) Does the PHA address stationary source siting?
Please check one: **Yes:** ☐ **No:** ☐
- xv) Does the PHA address human factors?
Please check one: **Yes:** ☐ **No:** ☐

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- xvi) Does the PHA evaluate a range of possible safety and health effects of failure of controls?
Please check one: **Yes:** ☐ **No:** ☐
- xvii) Was the PHA performed by a team with expertise in engineering and process operations and did the team include appropriate personnel?
Please check one: **Yes:** ☐ **No:** ☐
- xviii) Is there a system to promptly address the team's findings and recommendations?
Please check one: **Yes:** ☐ **No:** ☐
 If yes, is a written schedule of completion of actions developed?
 If yes, are the actions taken as soon as possible and documented?
 If yes, are the actions communicated to operating, maintenance and other responsible employees in the process?
- xix) Has the PHA been updated and revalidated by a team every five years to assure that the PHA is consistent with the current process?
Please check one: **Yes:** ☐ **No:** ☐
- xx) Are there records of the updates and resolution of recommendations for the life of the process?
Please check one: **Yes:** ☐ **No:** ☐

C. Operating Procedures

- i) Does the written operating procedures provide instructions or steps for conducting activities associated with each covered process consistent with the safety information?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Does the procedures address the steps for initial startup?
Please check one: **Yes:** ☐ **No:** ☐
- iii) Does the procedures address the steps for normal operations?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Does the procedures address the steps for emergency shutdown, including the conditions under which emergency shutdown is required, and the assignment of shutdown responsibility to qualified operators to ensure that emergency shutdown is executed in a safe and timely manner?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Does the procedures address the steps for emergency operations?
Please check one: **Yes:** ☐ **No:** ☐
- v) Does the procedures address the steps for normal shutdown?
Please check one: **Yes:** ☐ **No:** ☐
- vi) Does the procedures address the steps for startup following a turnaround, or after an emergency shutdown?
Please check one: **Yes:** ☐ **No:** ☐
- vii) Does the procedures address the operating limits for consequences of deviations?
Please check one: **Yes:** ☐ **No:** ☐
- ix) Does the procedures address the operating limits for steps required to correct or avoid deviations?
Please check one: **Yes:** ☐ **No:** ☐
- x) Does the procedures address the safety and health considerations of properties of, and hazards presented by, the chemicals used in the process?
Please check one: **Yes:** ☐ **No:** ☐

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- xi) Does the procedures address the safety and health considerations of precautions necessary to prevent exposure, including engineering controls, administrative controls, and personal protective equipment?
Please check one: **Yes:** ☐ **No:** ☐
- xii) Does the procedures address the safety and health considerations of control measures to be taken if physical contact or airborne exposure occurs?
Please check one: **Yes:** ☐ **No:** ☐
- xiii) Do the procedures address the safety and health considerations of quality control for raw materials and control of hazardous chemical inventory levels?
Please check one: **Yes:** ☐ **No:** ☐
- xiv) Does the procedures address the safety and health considerations of any special or unique hazards?
Please check one: **Yes:** ☐ **No:** ☐
- xv) Does the procedures address the safety systems and their functions?
Please check one: **Yes:** ☐ **No:** ☐
- xvi) Are the operating procedures readily accessible to the employees involved in the process?
Please check one: **Yes:** ☐ **No:** ☐
- xvii) Are the operating procedures certified annually to be current and accurate and that they are reviewed as often as necessary?
Please check one: **Yes:** ☐ **No:** ☐
- xviii) Does the operating procedures contain safe work practices to provide for the control of hazards during specific operations, such as lockout/tagout and are the procedures implemented?
Please check one: **Yes:** ☐ **No:** ☐

D. Training

- i) Has each employee presently involved in operating the process, and each employee before being involved in operating a newly assigned process, been initially trained in an overview of the process and in the operating procedures?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Does initial training include emphasis on safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks? (In lieu of initial training for employees already involved in operating a process on June 21, 1999, the employee may be certified in writing by responsible personnel that they have the required knowledge, skills, and abilities to safely carry out the duties and responsibilities as specified in the operating procedures.)
Please check one: **Yes:** ☐ **No:** ☐
- iii) Has refresher training been provided at least every three years, or more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Has a record of each trained employee been ascertained and documented that they received and understood the training required?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Does the record contain the identity of the employee, the date of the training and the means used to verify that the employee understood the training?
Please check one: **Yes:** ☐ **No:** ☐

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E. Mechanical Integrity

- i) Is there training for the employees involved in maintaining the on-going integrity of process equipment?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Are inspections and tests performed on process equipment?
Please check one: **Yes:** ☐ **No:** ☐
 If yes, do inspection and testing procedures follow recognized and generally accepted good engineering practices?
- iii) Is the frequency of inspections and tests of process equipment consistent with applicable manufacturers' recommendations, good engineering practices, and prior operating experience?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Are each of the inspections and tests that had been performed on process equipment documented including the date of the inspection or test, the name of the person who performed the inspection or test, the serial number or other identifier of the equipment on which the inspection or test was performed, and the results of the inspection or test?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Have the deficiencies in equipment that were outside acceptable limits defined by the process safety information corrected before further use or in a safe and timely manner when necessary means were taken to assure safe operation?
Please check one: **Yes:** ☐ **No:** ☐
- v) Is the equipment assured to be suitable, as it was fabricated, for the process application for which it will be used in the construction of new plants and equipment?
Please check one: **Yes:** ☐ **No:** ☐
- vi) Have the appropriate checks and inspections been performed to assure that equipment was installed properly and consistent with design specifications and the manufacturer's instructions?
Please check one: **Yes:** ☐ **No:** ☐
- vii) Are maintenance materials, spare parts and equipment assured to be suitable for the process application for which they would be used?
Please check one: **Yes:** ☐ **No:** ☐

F. Management of Change

- i) Does the written procedures manage changes to process chemicals, technology, equipment, and procedures, and changes to stationary sources that affect the covered process?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Do the procedures assure the technical basis for the proposed change has been addressed prior to any change occurring?
Please check one: **Yes:** ☐ **No:** ☐
- iii) Do the procedures assure the impact of change on safety and health has been addressed prior to any change occurring?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Do the procedures assure the modifications to the operating procedures have been addressed prior to any change occurring?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Do the procedures assure the necessary time period for the change has been addressed prior to any change occurring?
Please check one: **Yes:** ☐ **No:** ☐
- v) Do the procedures assure the authorization requirements for the proposed change has been addressed prior to any change occurring?
Please check one: **Yes:** ☐ **No:** ☐

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- vii) Were employees, which are involved in operating a process and maintenance, and contract employees, whose job tasks would be affected by a change in the process, informed of, and trained in, the change prior to start-up of the process or affected part of the process?
Please check one: **Yes:** ☐ **No:** ☐
- viii) Did a change result in a change in the process safety information?
Please check one: **Yes:** ☐ **No:** ☐
 If yes, was the information updated accordingly?
- ix) Did a change result in a change in the operating procedures or practices?
Please check one: **Yes:** ☐ **No:** ☐
 If yes, were the procedures or practices been updated accordingly?

G. Pre-startup Review

- i) Does the pre-start safety review confirm that construction and equipment was in accordance with design specifications prior to the introduction of regulated substances to a process?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Does the pre-start safety review confirm that safety, operating, maintenance, and emergency procedures were in place and were adequate prior to the introduction of regulated substances to a process?
Please check one: **Yes:** ☐ **No:** ☐
- iii) Does the pre-start safety review confirm that a process hazard analysis had been performed and recommendations had been resolved or implemented before startup prior to the introduction of regulated substances to a process?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Does the pre-start safety review confirm that modified stationary sources meet the requirements contained in management of change prior to the introduction of regulated substances to a process?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Does the pre-start safety review confirm that training of each employee involved in operating a process had been completed prior to the introduction of regulated substances to a process?
Please check one: **Yes:** ☐ **No:** ☐

H. Incident Investigation

- i) Were all incident investigations initiated not later than 48 hours following the incident?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Was an incident investigation team established and did it consist of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident?
Please check one: **Yes:** ☐ **No:** ☐
- iii) Was a report prepared at the conclusion of every investigation?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Does every report include the date of the incident?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Does every report include the date the investigation began?
Please check one: **Yes:** ☐ **No:** ☐
- v) Does every report include a description of the incident?
Please check one: **Yes:** ☐ **No:** ☐
- vi) Does every report include the factors that contributed to the incident?
Please check one: **Yes:** ☐ **No:** ☐

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- vii) Does every report include any recommendations resulting from the investigation?
Please check one: **Yes:** ☐ **No:** ☐
- ix) Has a system been established to address and resolve the report findings and recommendations, and are the resolutions and corrective actions documented?
Please check one: **Yes:** ☐ **No:** ☐
- x) Was the report reviewed with all affected personnel whose job tasks were relevant to the incident findings including contract employees, where applicable?
Please check one: **Yes:** ☐ **No:** ☐

I. Employee Participation

- i) Have the employees and their representatives been consulted on the conduct and development of process hazards analyses and on the development of the other elements of process safety management in chemical accident prevention provisions?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Have the employees and their representatives been provided access to process hazard analyses and to all other information required to be developed under chemical accident prevention rule?
Please check one: **Yes:** ☐ **No:** ☐

J. Hot Work Permits

- i) Has there been issued a hot work permit for each hot work operation conducted on or near a covered process?
Please check one: **Yes:** ☐ **No:** ☐
- ii) Does the permit document that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations?
Please check one: **Yes:** ☐ **No:** ☐
- iii) Does the permit indicate the date(s) authorized for hot work and the object on which hot works to be performed?
Please check one: **Yes:** ☐ **No:** ☐
- iv) Are the permits being kept on file until completion of the hot work operations?
Please check one: **Yes:** ☐ **No:** ☐

SECTION III: Responsible Personnel Concurrence

I have reviewed the information contained herein, verified that it is accurate and complete, and hereby submit it to the KSC Environmental Program Branch (EPB) for review and possible revision to the RMP.

Name: _____ Mail Code: _____ Phone Number: _____

Signature: _____ Date: _____

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LIST OF RMP REGULATED SUBSTANCES

CAS	Chemical Name	Threshold (lbs)	Threshold (gal)	Toxic Endpoint
106-98-9	1-butene	10,000	**	**
590-21-6	1-chloropropylene {1-propene, 1-chloro-}	10,000	**	**
109-67-1	1-pentene	10,000	1,869	**
57-14-7	1,1-dimethylhydrazine {Dimethylhydrazine} {Hydrazine, 1,1-dimethyl-}	15,000	2,271	0.012
106-99-0	1,3-butadiene	10,000	1,930	**
504-60-9	1,3-pentadiene	10,000	1,753	**
107-01-7	2-butene	10,000	**	**
590-18-1	2-butene-cis	10,000	1,929	**
624-64-6	2-butene-trans {2-butene, (E)}	10,000	1,983	**
557-98-2	2-chloropropylene {1-propene, 2-chloro-}	10,000	**	**
563-46-2	2-methyl-1-butene	10,000	1,844	**
115-11-7	2-methylpropene {1-propene, 2-methyl-}	10,000	2,031	**
646-04-8	2-pentene (E)-	10,000	1,827	**
627-20-3	2-pentene (Z)-	10,000	1,849	**
463-82-1	2,2-dimethylpropane {Propane, 2,2-dimethyl-}	10,000	2,028	**
563-45-1	3-methyl-1-butene	10,000	1,911	**
75-07-0	Acetaldehyde	10,000	1,536	**
74-86-2	Acetylene {Ethyne}	10,000	1,955	**
107-02-8	Acrolein {2-propenal}	5,000	714	0.0011
107-13-1	Acrylonitrile {2-propenenitrile}	20,000	2,994	0.076
814-68-6	Acrylyl Chloride {2-propenoyl Chloride}	5,000	527	0.0009
107-18-6	Allyl Alcohol {2-propen-1-ol}	15,000	2,105	0.036
107-05-01	Allyl Chloride	1,000	**	**
107-11-9	Allylamine {2-propen-1-amine}	10,000	1,577	0.0032
7664-41-7	Ammonia (Anhydrous)	10,000	1,758	0.14
7664-41-7	Ammonia (≥20%)	20,000	2,723	0.14
7784-34-1	Arsenous Trichloride	15,000	836	0.01
7784-42-1	Arsine {Arsenic Hydride}	1,000	45	0.0019
10294-34-5	Boron Trichloride {Borane, Trichloro-}	5,000	444	0.01
7637-07-2	Boron Trifluoride {Borane, Trifluoro-}	5,000	374	0.028
353-42-4	Boron Trifluoride Compound with Methy Ether (1:1) {Boron, Trifluoro[oxybis[methane]-,T-4}	15,000	1,451	0.023
7726-95-6	Bromine	10,000	386	0.0065
598-73-2	Bromotrifluorethylene {Ethene, Bromotrifluoro-}	10,000	**	**
106-97-8	Butane	10,000	1997	**
25167-67-3	Butene	10,000	2014	**
75-15-0	Carbon Disulfide	20,000	1897	0.16
463-58-1	Carbon Oxysulfide {Carbon Oxide Sulfide (COS)} {Carbonyl Sulfide}	10,000	571	**
7782-50-5	Chlorine	2,500	210	0.0087
10049-04-4	Chlorine Dioxide {Chlorine Oxide (ClO2)}	1,000	75	0.0028
7791-21-1	Chlorine Monoxide {Chlorine Oxide}	10,000	**	**
67-66-3	Chloroform {Methane, Trichloro-}	20,000	1,616	0.49
542-88-1	Chloromethyl Ether {Bis(chloromethyl) Ether} {Methane, Oxybis [chloro-]} {Dichloromethyl Ether}	1,000	91	0.00025
107-30-2	Chloromethyl Methyl Ether {Methane, Chloromethoxy-}	5,000	565	0.0018
4170-30-3	Crotonaldehyde {2-butenal}	20,000	2,833	0.029
123-73-9	Crotonaldehyde, (E)- {2-butenal, (E)-}	20,000	2,810	0.029
460-19-5	Cyanogen {Ethanedinitrile}	10,000	1,256	**
506-77-4	Cyanogen Chloride	10,000	980	0.03

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108-91-8	Cyclohexylamine {Cyclohexanamine}	15,000	2,079	0.16
75-19-4	Cyclopropane	10,000	1,773	**
19287-45-7	Diborane {Diborane (6)}	2,500	**	0.0011
110-05-4	Dibutyl Peroxide (Tertiary)	**	5,000	**
4109-96-0	Dichlorosilane {Silane, Dichloro-}	10,000	999	**
75-37-6	Diffuoroethane {Ethane, 1, 1-difluoro-}	10,000	1,261	**
124-40-3	Dimethylamine {Methanamine, N-methyl-}	10,000	1,786	**
75-78-5	Dimethyldichlorosilane {Silane, Dichlorodimethyl-}	5,000	545	0.026
106-89-8	Epichlorohydrin {Oxirane, (Chloromethyl)-}	20,000	1,331	0.076
74-84-0	Ethane	10,000	2,195	**
107-00-6	Ethyl Acetylene {1-butyne}	10,000	1,767	**
75-00-3	Ethyl Chloride {Chloroethane} {Ethane, Chloro-}	10,000	1,323	**
60-29-7	Ethyl Ether {Ethane, 1,1'-oxybis-}	10,000	1,678	**
75-08-1	Ethyl Mercaptan {Ethanethiol}	10,000	1,451	**
109-95-5	Ethyl Nitrite {Nitrous Acid, Ethyl Ester}	10,000	1,331	**
75-04-7	Ethylamine {Monoethylamine} {Ethanamine}	10,000	1,762	**
74-85-1	Ethylene {Ethene}	10,000	2,106	**
75-21-8	Ethylene Oxide {Oxirane}	10,000	1,379	0.09
107-15-3	Ethylenediamine {1,2-ethanediamine}	20,000	2,669	0.49
151-56-4	Ethyleneimine {Aziridine}	10,000	1,440	0.018
7782-41-4	Fluorine	1,000	79	0.0039
50-00-0	Formaldehyde (Solution)	15,000	1,591	0.012
110-00-9	Furan	5,000	639	0.0012
302-01-2	Hydrazine	15,000	1,918	0.011
7647-01-0	Hydrochloric Acid (≥37%)	15,000	1,510	0.03
74-90-8	Hydrocyanic Acid {Hydrogen Cyanide}	2,500	434	0.011
1333-74-0	Hydrogen	10,000	**	**
7647-01-0	Hydrogen Chloride (Anhydrous) {Hydrochloric Acid}	5,000	503	0.03
7664-39-3	Hydrogen Fluoride/hydrofluoric Acid (≥50%) {Hydrofluoric Acid}	1,000	121	0.016
7783-07-5	Hydrogen Selenide	500	28	0.00066
7783-06-4	Hydrogen Sulfide	10,000	1,308	0.042
7803-49-8	Hyroxylamine	**	2,500	**
13463-40-6	Iron, Pentacarbonyl- {Iron Carbonyl (Fe(co)5), (Tb-5-11)-}	2,500	206	0.00044
75-28-5	Isobutane {Propane, 2-methyl}	10,000	2,151	**
78-82-0	Isobutyronitrile {Propanenitrile, 2-methyl-}	20,000	3,149	0.14
78-78-4	Isopentane {Butane, 2-methyl-}	10,000	1,933	**
78-79-5	Isoprene {1,3-butadiene, 2-methyl-}	10,000	1,760	**
75-31-0	Isopropylamine {2-propanamine}	10,000	1,734	**
75-29-6	Isopropyl Chloride {Propane, 2-chloro-}	10,000	1,390	**
108-23-6	Isopropyl Chloroformate {Carbonochloridic Acid, 1-methylethyl Ester}	15,000	1,664	0.1
126-98-7	Methacrylonitrile {2-propenenitrile, 2-methyl-} {Methylacrylonitrile}	10,000	1,497	0.0027
74-82-8	Methane	10,000	2,853	**
74-87-3	Methyl Chloride {Chloromethane} {Methane, Chloro-}	10,000	1,202	0.82
79-22-1	Methyl Chloroformate {Carbonochloridic Acid, Methylester} {Methyl Chlorocarbonate}	5,000	489	0.0019
115-10-6	Methyl Ether {Methane, Oxybis-}	10,000	1,655	**
107-31-3	Methyl Formate {Formic Acid, Methyl Ester}	10,000	1,235	**
60-34-4	Methyl Hydrazine	15,000	2,066	0.0094
624-83-9	Methyl Isocyanate {Methane, Isocyanato-}	10,000	1,248	0.0012
74-93-1	Methyl Mercaptan {Methanethiol} {Thiomethanol}	10,000	1,343	0.049
556-64-9	Methyl Thiocyanate {Thiocyanic Acid, Methyl Ester}	20,000	2,244	0.085
74-89-5	Methylamine {Methanamine} {Monomethylamine}	10,000	1,729	**
75-79-6	Methyltrichlorosilane {Silane, Trichloromethyl-}	5,000	472	0.018
13463-39-3	Nickel Carbonyl {Nickel Tetracarbonyl}	1,000	91	0.00067

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7697-37-2	Nitric Acid ($\geq 80\%$)	15,000	1,196	0.026
10102-43-9	Nitric Oxide {Nitrogen Oxide (NO)}	10,000	943	0.031
8014-95-7	Oleum (Fuming Sulfuric Acid) {Sulfuric Acid, with Sulfur Trioxide}	10,000	608	0.01
109-66-0	Pentane	10,000	1,914	**
79-21-0	Peracetic Acid {Ethaneperoxoic Acid} {Peroxyacetic Acid}	10,000	977	0.0045
594-42-3	Perchloromethylmercaptan {Methanesulfonyl Chloride, Trichloro-}	10,000	707	0.0076
75-44-5	Phosgene {Carbonic Dichloride} {Carbonyl Chloride}	500	42	0.00081
7803-51-2	Phosphine {Hydrogen Phosphide}	5,000	803	0.0035
10025-87-3	Phosphorus Oxychloride {Phosphoryl Chloride}	5,000	364	0.003
7719-12-2	Phosphorus Trichloride {Phosphorous Trichloride}	15,000	1,142	0.028
110-89-4	Piperidine	15,000	2,085	0.022
463-49-0	Propadiene {1,2-propadiene}	10,000	**	**
74-98-6	Propane	10,000	2,381	**
107-12-0	Propionitrile {Ethyl Cyanide} {Propanenitrile}	10,000	1,494	0.0037
109-61-5	Propyl Chloroformate {Carbonochloridic Acid, Propylester}	15,000	1,649	0.01
115-07-1	Propylene {1-propene}	10,000	1,968	**
75-56-9	Propylene oxide {oxirane, methyl-}	10,000	1,395	**
75-55-8	Propyleneimine {Aziridine, 2-methyl}	10,000	1,485	0.12
74-99-7	Propyne {1-propyne}	10,000	1,697	**
7803-62-5	Silane	10,000	1,762	**
7446-09-5	Sulfur Dioxide (Anhydrous)	5,000	418	0.0078
7783-60-0	Sulfur Tetrafluoride {Sulfur Fluoride, (Sf4) (T-4)-}	2,500	154	0.0092
7446-11-9	Sulfur Trioxide {Sulfuric Anhydride}	10,000	624	0.01
116-14-3	Tetrafluoroethylene {Ethene, Tetrafluoro-}	10,000		
75-74-1	Tetramethyllead {Plumbane, Tetramethyl-}	10,000	601	0.004
75-76-3	Tetramethylsilane (Silane, Tetramethyl-}	10,000	1,849	**
509-14-8	Tetranitromethane {Methane, Tetranitro-}	10,000	732	0.004
7550-45-0	Titanium Tetrachloride {Titanium Chloride (Ticl4) T-4}	2,500	174	0.02
584-84-9	Toluene 2,4-diisocyanate {Benzene 2,4-diisocyanato-1-methyl-}	10,000	979	0.007
91-08-7	Toluene 2,6-diisocyanate {Benzene, 1,3-diisocyanato-2-methyl-}	10,000	978	0.007
26471-62-5	Toluene Diisocyanate (Unspecified Isomer) {Benzene, 1,3-diisocyanatomethyl-}	10,000	1,007	0.007
10025-78-2	Trichlorosilane {Silane, Trichloro-}	10,000	892	**
79-38-9	Trifluorochloroethylene {Ethene, Chlorotrifluoro-}	10,000	917	**
75-50-3	Trimethylamine {Methanamine, N, n-dimethyl-}	10,000	1,893	**
75-77-4	Trimethylchlorosilane (Silane, Chlorotrimethyl-}	10,000	1,403	0.05
108-05-4	Vinyl Acetate Monomer {Acetic Acid Ethenyl Ester}	15,000	1,929	0.26
689-97-4	Vinyl Acetylene (1-buten-3-yne}	10,000	1,689	**
75-01-4	Vinyl Chloride {Ethene, Chloro-}	10,000	1,237	**
109-92-2	Vinyl Ethyl Ether (Ethene, Ethoxy-)	10,000	1,579	**
75-02-5	Vinyl Fluoride {Ethene, Fluoro-}	10,000	1,695	**
107-25-5	Vinyl Methyl Ether {Ethene, Methoxy-}	10,000	1,542	**
75-35-4	Vinylidene Chloride {Ethene, 1,1-dichloro-} {1,1-dichlorethylene}	10,000	990	**
75-38-7	Vinylidene Fluoride {Ethene, 1,1-difluoro-}	10,000	**	**

**** Amount not applicable.**